

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) A switching converter, in which for use with an input voltage comprising:

~~can be switched by means of~~ at least one controlled control switch coupled to at least one primary winding of a transformer, with

a control circuit for controlling the switch, to which a regulating signal in the sense of the regulation of at least an output voltage is sent, wherein a power supply of the control circuit takes place is provided via:

i) a forward voltage of an auxiliary winding of the transformer, a first rectifier, a capacitor and a series regulator, on the one hand, and, on the other hand, or

ii) starting from an the input voltage, via a current path and a storage capacitor during initialization of the voltage converter,

wherein the an off-state voltage of the auxiliary winding, which is rectified by means of a second rectifier is additionally sent provided to the control circuit for as an alternative power supply, wherein the rectified off-state voltage of the auxiliary winding is used to supply power to the control circuit during the operation as long as the auxiliary winding it has a sufficient at least a predetermined voltage level.

2. (Currently Amended) The switching converter in accordance with claim 1, wherein a second auxiliary winding of the transformer is provided to generate the off-state voltage, the off-state voltage being used via the second rectifier directly to supply power to the control circuit.

3. (Currently Amended) The switching converter in accordance with claim 1, wherein the forward voltage as well as the off-state voltage are taken from the auxiliary winding, wherein first uncoupling/rectifier diodes rectify the forward voltage and lead to the a series regulator, and additional uncoupling/rectifier diodes rectify the off-state voltage and lead to the supply voltage terminal of the control circuit.

4. (Previously Presented) Switching converter in accordance with claim 1, wherein the output of the series regulator is connected with the storage capacitor via an uncoupling diode.

5. (Previously Presented) The switching converter in accordance with claim 2, wherein the output of the series regulator is connected with the storage capacitor via an uncoupling diode.
6. (Previously Presented) The switching converter in accordance with claim 3, wherein the output of the series regulator is connected with the storage capacitor via an uncoupling diode.
7. (New) The switching converter in accordance with claim 1, wherein the power is provided to the control circuit from the auxiliary winding via the second rectifier when the rectified output voltage of the auxiliary winding exceeds an output of the series regulator by about at least 1 volt during operation of the switching converter.
8. (New) A switching converter to convert an input voltage into an output voltage, the converter comprising:
 - a transformer having at least a primary winding, a secondary winding and an auxiliary winding;
 - at least one control switch coupled to the primary winding;
 - a controller coupled to the control switch and adapted to provide a control signal to the switch, the controller receiving a regulating signal based on an output voltage of the secondary winding; and
 - a power source for the controller provided from either i) the input voltage during startup of the converter, or ii) a forward voltage of an auxiliary winding of the transformer during operation of the converter, wherein an off-state voltage of the auxiliary winding is also provided to the control circuit as an alternative power source, the rectified off-state voltage of the auxiliary winding providing power to the control circuit during operation as long as the auxiliary winding has at least a predetermined voltage level.
9. (New) The switching converter in accordance with claim 8, further comprising a voltage regulator coupled between the auxiliary winding and the controller, wherein power is provided to the controller by the off-state voltage of the auxiliary winding rather than from the voltage regulator when the output of the auxiliary winding exceeds the output of the voltage regulator.